

1 Q. GNP Interconnection – Reference: IC-203:

2

3 a. Please provide a diagram comparable to HGB schedule XIII that  
4 shows the Island Interconnected system and the St. Anthony's-  
5 Roddickton system prior to the GNP interconnection including all  
6 transmission line voltages and generating capacity.

7

8 b. Please confirm that prior to the GNP interconnection, the area north to  
9 Flower's Cove was part of the Island Interconnected System.

10

11 c. Please list all communities and provide the loads by month for each  
12 community, and the peak loads by month, since 1992 and forecast for  
13 2001 and 2002 separated into three categories:

14

15 i) Areas previously part of the Island Interconnected System  
16 which are served by upgraded transmission as a result of the  
17 GNP interconnection

18

19 ii) Areas which are now part of the Island Interconnected System,  
20 but which prior to the GNP interconnection were not part of the  
21 Island Interconnected System or the St. Anthony's-Roddickton  
22 System

23

24 iii) Areas which were part of the St. Anthony's-Roddickton system  
25 prior to the GNP interconnection.

1 For each of the areas in 3, please list the local generation  
2 capacity that was in place prior to the interconnection, and the  
3 location of that generation.

4

5 d. Please provide dates for construction of each of the transmission lines  
6 TL221, TL241, TL244, TL256, TL261 and TL257. If any of these  
7 transmission lines were upgraded or reinforced since they were first  
8 constructed in order to carry higher voltages or loads, please provide  
9 the date of the upgrade and the change in voltage. If any of them  
10 were replacements for earlier lines, please provide the same  
11 information for the earlier lines.

12

13

14 A. GNP Interconnection – Reference: IC-203:

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16 a. The attached diagram labeled IC-270(a) shows the Island  
17 Interconnected System and the St. Anthony - Roddickton System prior  
18 to the GNP Interconnection.

19

20 b. The area on the Great Northern Peninsula north to Eddie's Cove East  
21 on the Flower's Cove system was part of the Island Interconnected  
22 System prior to the GNP Interconnection.

23

24 c. i) See attached table of monthly peak demands and energy  
25 deliveries for Newfoundland and Labrador Hydro's GNP  
26 metered delivery points applicable for this question. A list of  
27 system communities is included. Forecasts for GNP metered  
28 delivery points for 2001 and 2002 are available for winter peak  
29 demand only.

1           ii)    There are no communities in this category.

2

3           iii)    See attached table of monthly peak demands and energy  
4                   deliveries for Newfoundland and Labrador Hydro's GNP  
5                   metered delivery points applicable for this question. A list of  
6                   system communities is included. Forecasts for GNP metered  
7                   delivery points for 2001 and 2002 are available for winter peak  
8                   demand only.

9

10          d.    The location and capacity of generation in the St. Anthony –  
11                   Roddickton System prior to the GNP interconnection are as follows:

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13                   •    St. Anthony Diesel Plant contained 8,850 kW of diesel  
14                   generation including one 850 kW mobile diesel generator.

15

16                   •    The Roddickton Woodchip Plant had a capacity of 5,000 kW.  
17                   The site also had a 450 kW diesel generator for black start of  
18                   the plant and there was one 850 kW mobile diesel generators  
19                   located on site.

20

21                   •    The Roddickton Diesel Plant in the town of Roddickton had an  
22                   installed capacity of 2,350 kW.

23

24                   •    The Roddickton Mini-hydro Plant has a capacity of 425 kW.

25

26          e.    TL221 is a 66 kV transmission line that was built between Daniel's  
27                   Harbour and Hawke's Bay Terminal Stations in 1970. With the  
28                   addition of the Peter's Barren Terminal Station in 1990, TL221 was

1 terminated at Peter's Barren. The line section from Daniel's Harbour  
2 to Peter's Barren was renumbered as TL262.

3  
4 TL241 is a 138 kV transmission line that was built between Hawke's  
5 Bay and Plum Point Terminal Stations in 1983. While the line was  
6 built to 138 kV standard, it operated at 66 kV. In 1995 TL241 was  
7 extended to the Peter's Barren Terminal Station and commenced  
8 operation at 138 kV. Note at that time the TL241 66 kV line  
9 termination at Hawke's Bay Terminal Station was removed from  
10 service.

11  
12 TL244 is a 138 kV transmission line that was built between Plum Point  
13 and Bear Cove Terminal Stations in 1983. The original line was built  
14 to 66 kV standards. The transmission line was upgraded for operation  
15 at 138 kV in 1995.

16  
17 TL256 is a 138 kV transmission line that was built between Bear Cove  
18 and St. Anthony Airport Terminal Stations in 1995.

19  
20 TL261 is a 69 kV transmission line that was built between St. Anthony  
21 Airport and St. Anthony Diesel Plant Terminal Stations in 1996.

22  
23 TL257 is a 69 kV transmission line that was built between the  
24 Roddickton Woodchip and St. Anthony Airport Terminal Stations in  
25 1989.

	BEAR COVE SYSTEM		PLUM POINT SYSTEM	
	MWh	kW	MWh	kW
Jan-92	2674	5107	1543	N/A
Feb-92	2525	6931	1498	N/A
Mar-92	2227	4834	1618	N/A
Apr-92	1680	3922	1360	N/A
May-92	1560	4128	1387	N/A
Jun-92	1891	3739	1019	N/A
Jul-92	1368	2976	1178	N/A
Aug-92	667	2784	1031	N/A
Sep-92	1234	2645	1013	N/A
Oct-92	1829	3456	1356	N/A
Nov-92	1910	4150	1231	N/A
Dec-92	2486	4834	809	N/A
Jan-93	2654	5280	1541	N/A
Feb-93	2438	4800	1608	N/A
Mar-93	2203	4800	1390	N/A
Apr-93	1776	4560	1173	N/A
May-93	1930	3466	1280	N/A
Jun-93	1464	3072	1126	N/A
Jul-93	1718	4416	1346	2801
Aug-93	1066	2736	864	2239
Sep-93	1296	2280	1031	2259
Oct-93	1872	3739	1280	2504
Nov-93	2026	6336	1229	N/A
Dec-93	2314	6019	1398	3595
Jan-94	2923	5472	1692	4026
Feb-94	2654	5760	1523	3310
Mar-94	2491	4608	1517	3036
Apr-94	1718	3840	1098	2676
May-94	1661	3840	1085	2556
Jun-94	1949	3744	1000	2419
Jul-94	888	3792	1022	2906
Aug-94	1152	2304	895	1956
Sep-94	1334	3072	1028	2292
Oct-94	1498	3264	1003	2375
Nov-94	1886	4032	1190	2638
Dec-94	2626	4896	1586	3444
Jan-95	2712	4704	1614	3034
Feb-95	2285	4896	1349	3034
Mar-95	1790	5568	1075	4483
Apr-95	1608	3360	1037	2412
May-95	1123	N/A	1123	2416
Jun-95	N/A	N/A	N/A	N/A
Jul-95	N/A	N/A	N/A	N/A
Aug-95	N/A	N/A	N/A	N/A
Sep-95	N/A	N/A	N/A	N/A
Oct-95	N/A	N/A	N/A	N/A
Nov-95	1483	6000	1033	4040
Dec-95	2320	5800	1447	3400

	BEAR COVE SYSTEM		PLUM POINT SYSTEM	
	MWh	kW	MWh	kW
Jan-96	2469	5800	1476	3520
Feb-96	2057	4640	1256	3120
Mar-96	1920	5240	1201	3320
Apr-96	1591	3680	1041	2600
May-96	1597	3480	1065	2240
Jun-96	1360	3000	1016	2280
Jul-96	1264	2880	953	2280
Aug-96	1000	2400	815	1800
Sep-96	980	2840	1132	2840
Oct-96	1496	3160	1106	2400
Nov-96	1706	3480	1121	2400
Dec-96	1360	4288	873	2800
Jan-97	1714	4576	1022	2776
Feb-97	2111	4576	1261	2836
Mar-97	2071	4116	1284	2680
Apr-97	1666	3880	1057	2400
May-97	1574	3468	N/A	2308
Jun-97	1325	3144	N/A	2548
Jul-97	1235	2824	988	2084
Aug-97	1203	3316	973	2088
Sep-97	1241	2760	1060	2388
Oct-97	1556	5652	1078	2544
Nov-97	1722	3556	1137	2472
Dec-97	2110	4620	1349	3368
Jan-98	2277	4856	1369	3068
Feb-98	1859	4292	1174	2968
Mar-98	1893	4504	1192	2608
Apr-98	1631	3452	1012	2260
May-98	1599	3148	947	2048
Jun-98	1257	4792	962	2304
Jul-98	1340	2996	1014	2284
Aug-98	1350	2900	955	2120
Sep-98	1426	3672	1060	2432
Oct-98	1537	3040	1204	2648
Nov-98	1577	3348	1283	2856
Dec-98	2073	4616	1610	3932
Jan-99	2059	4784	1559	3592
Feb-99	1651	3964	1288	2904
Mar-99	1678	3440	1310	2780
Apr-99	1605	3376	1166	2592
May-99	1549	3076	1137	2404
Jun-99	1391	2960	1156	2432
Jul-99	1294	2740	1077	3056
Aug-99	1194	2480	1075	2244
Sep-99	1157	2760	986	2316
Oct-99	1485	4184	1199	3500
Nov-99	1534	4180	1273	3444
Dec-99	1977	4808	1572	4224

	BEAR COVE SYSTEM		PLUM POINT SYSTEM	
	MWh	kW	MWh	kW
Jan-00	1986	4348	1502	3460
Feb-00	1889	3884	1428	3084
Mar-00	1725	3372	1385	2892
Apr-00	1820	3676	1293	2752
May-00	1863	3728	1376	3060
Jun-00	1680	3324	1264	2760
Jul-00	1709	3252	1286	2688
Aug-00	1609	N/A	1211	2368
Sep-00	1460	N/A	1098	2632
Oct-00	1747	N/A	1314	2764
Nov-00	N/A	3496	1352	3056
Dec-00	2430	5137	1677	3960
Jan-01	2439	4606	1544	3184
Feb-01	2170	5801	1389	3056
Mar-01	1940	3022	1368	2868
Apr-01	1998	2826	1253	2764
2001 forecast		5002		4404
2002 forecast		5005		4411

- Note:
1. N/A is not available
  2. forecast is winter season peak demand

## BEAR COVE SYSTEM

Anchor Point  
Bear Cove  
Deadman's Cove  
Eddie's Cove East  
Flower's Cove  
Green Island Brook  
Green Island Cove  
Lower Cove  
Nameless Cove  
Pine's Cove  
Sandy Cove  
Savage Cove  
Shoal Cove East

## PLUM POINT SYSTEM

Bartlett's Harbour  
Bird Cove  
Black Duck Cove  
Blue Cove  
Brig Bay  
Castor's River North  
Castor's River South  
Forrester's Point  
Mount St. Margaret  
New Ferrole  
Pigeon Cove  
Plum Point  
Pond Cove  
Reef's Harbour  
Shoal Cove  
St. Barbe